

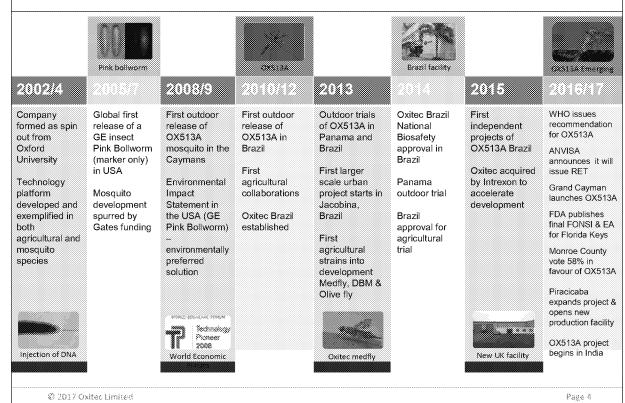
# Regulatory History (Annotated)



Date	Agency	Outcome					
Apr 2008	Interagency discussions re for GE mosquito field trial	Oct 2009 – USDA-VS-NCIE has jurisdiction					
Nov 2011	USDA-APHIS-BRS	Mar 2010 – Application for trial submitted to USDA-VS-NCIE					
	• EPA	NOV 2011 – USDA-VS-NCIE issues letter of no jurisdiction					
	• CDC	Nov 11 - FDA-CVM has jurisdiction					
	USDA-APHIS-PPD	3 YEARS to determine which agency has jurisdiction					
	USDA-APHIS-VS						
23 Nov 2011	Oxitec opened INAD file 012-109 with FDA	2011 – 2016: requested further information.					
		Achieved concurrence re sections of file (e.g., Molecular characterisation, GE animal lineage, trial protocol)					
11 Mar 2016	FDA_CVM post Oxitec's draft EA and FDA's preliminary FONSI						
	for public comment						
5 Aug 2016	FDA – CVM FINAL FONSI Key Haven published	Approx. 5 years to achieve a final FONSI for one trial site					
28 Oct 2016	INAD file 012-109 – resubmitted for a new trial site in Monroe	Amendment submission sent 4 Nov 2016					
	County						
14 Dec 2016	FDA's letter re incomplete EA						
Jan 2017	FDA_CVM release for comments - Draft Guidance for Industry	Deadline for comments Feb 21 2017					
	#236 – Regulation of mosquito related products						
	Allows jurisdiction transfer to EPA.						
Mar 2017	INAD file 012-109 – re submitted with expanded draft EA for						
	trials and endangered analysis (ESA) resubmitted						
28 Apr 2017	FDA -CVM request further clarifications/ information re trial sites						
	and ESA						
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### **Oxitec Historical Overview**





# Step-Wise Evaluation – Field Release



						Brazil	Brazil	Brazil	Cayman
East End	Bentong	East End	Itaberaba	Mandacaru	Nuevo Chorillio	Jacobina	Piracicaba CECAP	Piracicaba CENTRAL	West Bay
2009	2010	2010	2011-12	2012-13	2014	2013-14	2015→	2016 <del>→</del>	2016→
1 <sup>st</sup> open release MRR	Open release MRR	>90% control	>90% control	>90% control	>90% control	>90% control	(On-going)	(On-going)	(On-going)
NA	NA	2-300	1,800	2,800	1,000	1,500	5,000	65,000	2 <del>→</del> 50,000

#### Operational optimization/use

- Dispersal > release pattern required
- Longevity > release interval required
- Monitoring systems
- Dose/release rate required
- Build regulatory dossier

- Release optimization
  - Spatially and temporarily
  - Adaptive release rate
- Monitoring systems optimization
- Mass rearing and Distribution chain
- Data Management System

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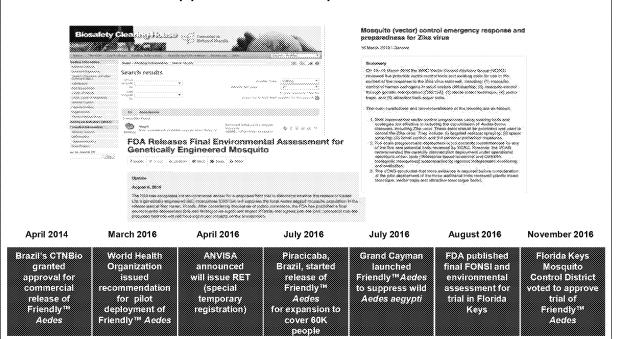
## Regulatory Applications Worldwide

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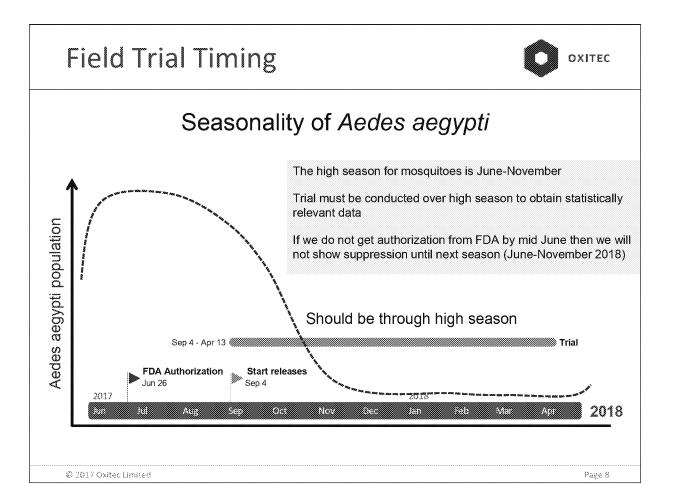
#### Approvals in Multiple Countries

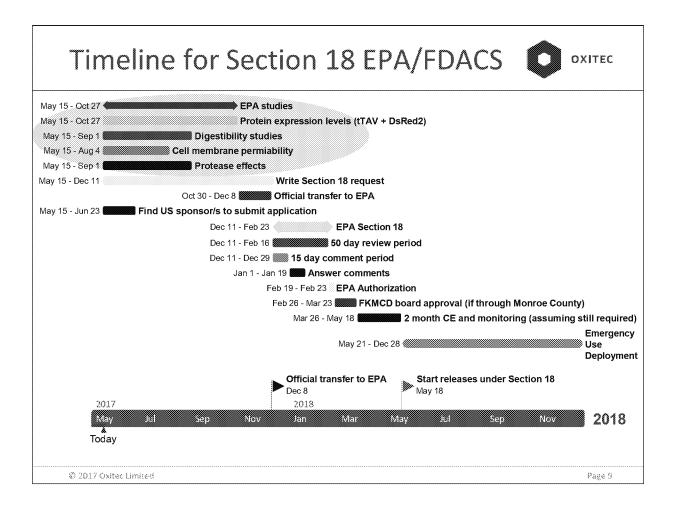


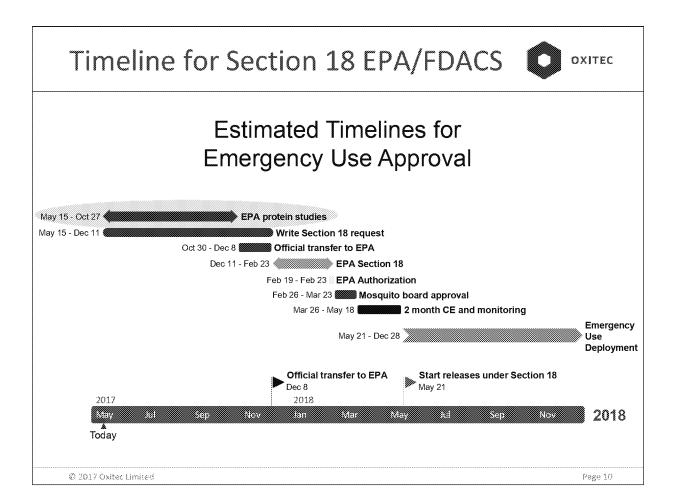
#### Timeline for Monroe County Trial OXITEC May 22 - May 26 🌉 Submit EA May 29 - Jun 23 FDA review of EA Jun 26 - Jun 30 **FDA Authorization** Jul 3 - Jul 7 FDA phone FKMCD allowing importation of eggs Jul 10 - Sep 1 2 month of CE Jul 10 - Sep 1 2 months of monitoring Trial (through Sep 4 - Apr 13 high season) FDA Authorization **J**un 26 Start releases Sep 4 2017 2018 2018 Today Apr 16 Submit results for NADA application/ **EPA**

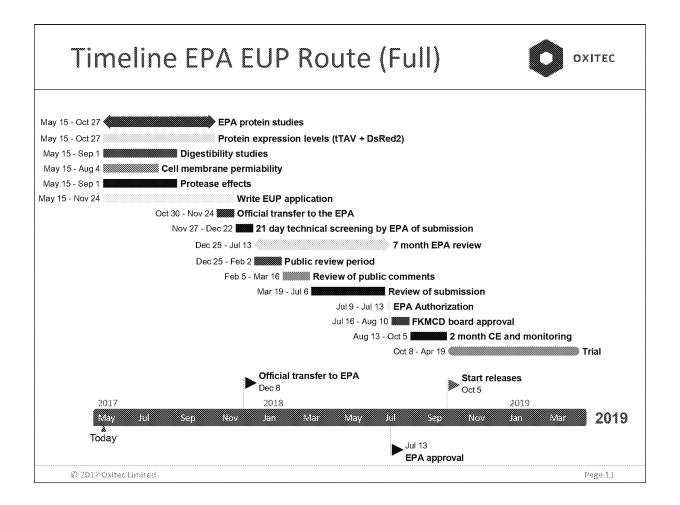
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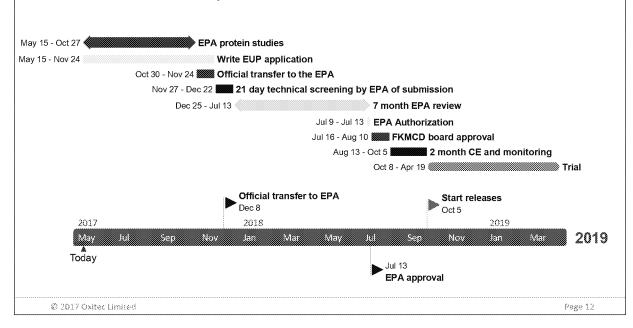




# Timeline EPA EUP Route (Full)



### Estimated Timelines for Experimental Use Permit



# Section 3 Registration



# Estimated Timeline for Section 3 Registration

